

24-BR-6010 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Boardman et al.

Art Unit: 3641

Serial No.: 09/735,009

Examiner: R. Palabrica

Filed: December 12, 2000

For:

SYSTEM AND METHODS OF

PRODUCING HYDROGEN USING A

NUCLEAR REACTOR

a RECEIVED

OCT 15 2002

GROUP 3600

AMENDMENT AFTER FINAL OFFICE ACTION (37 C.F.R. § 1.116)

Commissioner for Patents Washington, D.C. 20231

Applicant respectfully requests consideration and entry of the following amendment submitted in response to the Office Action dated August 14, 2002, and made final.

IN THE CLAIMS

1. (twice amended) A system for generating hydrogen comprising:

feed water;

a liquid metal nuclear reactor having a non-radioactive secondary heat loop;

a steam generator connected to said secondary heat loop, said steam generator capable of raising the temperature of said feed water;

a high temperature water cracking system, said feed water coupled to said water cracking system by a feed water input line; and

a topping heater, said topping heater capable of raising the temperature of said feed water, said feed water input line coupled in flow communication with said steam generator, said